Assist. Lecturer: Azhar Ayeed Merza Kazem

Mechanical Engineering Department

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Scientific certificates

MSc, University of Technology, Year 2013

PhD University of Technology, year 2020

Profile:

I worked in the Chinese company CGGC, one of the companies in the sewage system, where I worked on the Level device, then I worked as an engineer in the field of refrigeration in the installation of household appliances, and then I was hired at Al-Farabi College in the year 2016 in the workshop department as a teacher of welding and refrigerator until I obtained a master's degree, and I was transferred to the petroleum department, I worked as a teacher of subjects according to my specialist.

Teaching:

1. Thermodynamics, second stage, Petroleum Engineering Department (first course)

Thermodynamics: In thermodynamics there are laws that specialize in a wide range of applications that can be useful for all types of systems as long as the operating component has to do with energy balance and matter transfer.

2. Second stage materials strength laboratory (second course)

Material strength: In material mechanics, it is the ability of a material to withstand loads applied to it without mechanical breakdown or plastic deformation. The field of material resistance is concerned with the study of the forces and deformations resulting from the effect of those forces on the material. ... the applied loads can be axial (tension and compression) or rotational (shear).

3. Fluid mechanics laboratory, second stage (second course)

Fluid mechanics: It is a sub-discipline of mechanics of connected materials and it is mainly concerned with fluids, which are mainly liquids and gases. Studying it in the case of motion, this specialization seeks to determine the physical quantities of fluids, such as velocity, pressure, density, temperature, viscosity and flow rate, and modern mathematical applications have emerged to find solutions to problems related to fluid mechanics.

4. Descriptive geometry first stage (yearly)

Descriptive geometry: It is a science that investigates ways of representing different geometric objects on a flat surface such as the surface of a drawing paper (or on a computer screen). ... Describe that space accurately through 2D drawings or 3D models.

5. Computer lab first stage (yearly)

Computer science: It is an electronic machine that has the ability to receive data and process it into valuable information. It also stores them in different storage

media, and is often able to exchange these results and information with other compatible and advanced devices. Today's fastest computers can perform hundreds of billions of arithmetic and logical operations in a few seconds. Computers operate with special software called operating systems, and without them, the computer is a useless piece. Operating systems show the computer how to carry out tasks, and they often provide an environment for programmers to develop their applications.

Research Focus:

Renewable energy (clean energy) to generate electrical power.

Publications:

•Experimental and numerical investigation of the varying collector slope angle effect on solar chimney power plant performance.

•Numerical investigation for the diverging chimney and the collector roof height their effect solar chimney power plant performance.